

SEQUENCE LISTING

<110> Leshkowitz, Dena

<120> QUANTIFYING AND PROFILING ANTIBODY AND T CELL RECEPTOR GENE
EXPRESSION

<130> 29323

<160> 203

<170> PatentIn version 3.3

<210> 1

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 1

atggactgsa cctggagvrt c

21

<210> 2

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 2

atggactgga tttggaggat c

21

<210> 3

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 3

atggacacac tttgctmcac

20

<210> 4

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 4

gctgggtttt cctygttgy

19

<210> 5

<211> 18

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 5

ctgagctggm ttttyctt

18

<210> 6

<211> 18

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 6
ctggtggcrg ctcccaga 18

<210> 7
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 7
gctcagctcc tggggctcct g 21

<210> 8
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 8
ctggggctgc taatgctctg g 21

<210> 9
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 9
ttcctcctgc tactctggct c 21

<210> 10
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 10
cagaccag tcttcatttc t 21

<210> 11
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 11
tttcaactgc tcatcagatg gcgg 24

<210> 12
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 12
ccatggactg gacctgg 17

<210> 13
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 13
atgtctgtct ccttcctcat 20

<210> 14
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 14
atgaaacacc tgtggttctt 20

<210> 15
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 15
ccatggagtt kgggctgagc 20

<210> 16
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 16
atggggtcaa ccgccatcct 20

<210> 17
<211> 22
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 17
ccatggacac actttgytcc ac 22

<210> 18
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 18
agacgagggg gaaaaggggtt 20

<210> 19
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 19
caggttcagc tg 12

<210> 20
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 20
gaggttcagc tg 12

<210> 21
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 21
aaggttcagc tg 12

<210> 22
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 22
taggttcagc tg 12

<210> 23
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 23
ccggttcagc tg 12

<210> 24
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 24
cgggttcagc tg 12

<210> 25
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 25
ctggttcagc tg 12

<210> 26
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 26
cacgttcagc tg 12

<210> 27
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 27
caagttcagc tg 12

<210> 28
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 28
catgttcagc tg 12

<210> 29
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 29
cagcttcagc tg 12

<210> 30
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 30
cagattcagc tg 12

<210> 31
<211> 12

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 31
cagtttcagc tg 12

<210> 32
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 32
caggatcagc tg 12

<210> 33
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 33
caggctcagc tg 12

<210> 34
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 34
cagggtcagc tg 12

<210> 35
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 35
caggtacagc tg 12

<210> 36
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 36
caggtccagc tg 12

<210> 37
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 37
caggtgcagc tg 12

<210> 38
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 38
caggttaagc tg 12

<210> 39
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 39
caggtttagc tg 12

<210> 40
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 40
caggttgagc tg 12

<210> 41
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 41
caggttctgc tg 12

<210> 42
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 42
caggttccgc tg 12

<210> 43
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 43
cagggttcggc tg 12

<210> 44
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 44
cagggttcacc tg 12

<210> 45
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 45
cagggttcaac tg 12

<210> 46
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 46
cagggttcac tg 12

<210> 47
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 47
cagggttcagg tg 12

<210> 48
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 48
cagggttcaga tg 12

<210> 49
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 49
cagggttcagt tg 12

<210> 50
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 50
caggttcagc ag 12

<210> 51
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 51
caggttcagc cg 12

<210> 52
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 52
caggttcagc gg 12

<210> 53
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 53
caggttcagc ta 12

<210> 54
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 54
caggttcagc tc 12

<210> 55
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 55
caggttcagc tt 12

<210> 56
<211> 31

<212> DNA
 <213> Artificial sequence

 <220>
 <223> Single strand DNA oligonucleotide

 <400> 56
 ctccgtcagc agtggtgggtt actactggag c 31

 <210> 57
 <211> 31
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Single strand DNA oligonucleotide

 <400> 57
 ctccatcagc agtagtagtt actactgggg c 31

 <210> 58
 <211> 31
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Single strand DNA oligonucleotide

 <400> 58
 ctccgtcagc agtagtagtt actactggag c 31

 <210> 59
 <211> 82
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Single strand DNA oligonucleotide

 <220>
 <221> misc_feature
 <222> (45)..(50)
 <223> n is a, c, g, or t

 <400> 59
 tgtctactac tgtgcgagag atcggtacta tgagactagt ggtnnnnnn ccaatgcttt 60
 tgatgtcttg ggccaaggaa ca 82

 <210> 60
 <211> 11
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Single strand DNA oligonucleotide

 <400> 60
 tgtgcgagag a 11

 <210> 61
 <211> 17
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Single strand DNA oligonucleotide

 <400> 61

ggtacaactg gaacgac

17

<210> 62
<211> 59
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 62
aggtgcagct ggtgcagtct gggggaggcc tagtccagcc gggggggtcc ctgagactc

59

<210> 63
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 63
aggtgcagct gg

12

<210> 64
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 64
ggtgcagctg gt

12

<210> 65
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 65
gtgcagctgg tg

12

<210> 66
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 66
tgcagctggt gc

12

<210> 67
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 67
gcagctggtg ca

12

12

<210> 68
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 68
cagctggtgc ag

12

<210> 69
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 69
agctggtgca gt

12

<210> 70
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 70
gctggtgcag tc

12

<210> 71
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 71
ctggtgcagt ct

12

<210> 72
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 72
tggtgcagtc tg

12

<210> 73
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 73
ggtgcagtct gg

12

<210> 74
<211> 12
<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 74

gtgcagtctg gg

12

<210> 75

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 75

tgccagtctgg gg

12

<210> 76

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 76

gcagtctggg gg

12

<210> 77

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 77

cagtctgggg ga

12

<210> 78

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 78

agtctggggg ag

12

<210> 79

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 79

gtctggggga gg

12

<210> 80

<211> 12

<212> DNA

<213> Artificial sequence

<220>

14

<223> Single strand DNA oligonucleotide

<400> 80
tctgggggag gc

12

<210> 81
<211> 12
<212> DNA
<213> Artificial sequence<220>
<223> Single strand DNA oligonucleotide<400> 81
ctgggggagg cc

12

<210> 82
<211> 12
<212> DNA
<213> Artificial sequence<220>
<223> Single strand DNA oligonucleotide<400> 82
tgggggaggc ct

12

<210> 83
<211> 12
<212> DNA
<213> Artificial sequence<220>
<223> Single strand DNA oligonucleotide<400> 83
gggggaggcc ta

12

<210> 84
<211> 12
<212> DNA
<213> Artificial sequence<220>
<223> Single strand DNA oligonucleotide<400> 84
ggggaggcct ag

12

<210> 85
<211> 12
<212> DNA
<213> Artificial sequence<220>
<223> Single strand DNA oligonucleotide<400> 85
gggaggccta gt

12

<210> 86
<211> 12
<212> DNA
<213> Artificial sequence<220>
<223> Single strand DNA oligonucleotide

<400> 86

ggaggcctag tc

12

<210> 87
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 87
gaggcctagt cc

12

<210> 88
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 88
aggcctagtc ca

12

<210> 89
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 89
ggcctagtc ag

12

<210> 90
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 90
gcctagtcca gc

12

<210> 91
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 91
cctagtccag cc

12

<210> 92
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 92
ctagtccagc cg

12

<210> 93
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 93
tagtccagcc gg 12

<210> 94
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 94
agtccagccg gg 12

<210> 95
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 95
gtccagccgg gg 12

<210> 96
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 96
tccagccggg gg 12

<210> 97
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 97
ccagccgggg gg 12

<210> 98
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 98
cagccggggg gg 12

<210> 99
<211> 12
<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 99

agccgggggg gt

12

<210> 100

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 100

gccggggggg tc

12

<210> 101

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 101

ccgggggggt cc

12

<210> 102

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 102

cgggggggtc cc

12

<210> 103

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 103

gggggggtcc ct

12

<210> 104

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 104

gggggggtccc tg

12

<210> 105

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 105
gggggtccct ga

12

<210> 106
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 106
gggggtccctg ag

12

<210> 107
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 107
gggtccctga ga

12

<210> 108
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 108
ggtccctgag ac

12

<210> 109
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 109
gtccctgaga ct

12

<210> 110
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 110
tccctgagac tc

12

<210> 111
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 111

tgtgtattac tgtgcgagag a 21

<210> 112
<211> 31
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 112
gtattactat gatagtagtg gttattacta c 31

<210> 113
<211> 30
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 113
gatgcttttg atgtctgggg ccaagggaca 30

<210> 114
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<400> 114
ncarytngtn ga 12

<210> 115
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 115
tgtctactac tg 12

<210> 116
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 116
gtctactact gt 12

<210> 117
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 117
tctactactg tg 12

<210> 118
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 118
ctactactgt gc 12

<210> 119
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 119
tactactgtg cg 12

<210> 120
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 120
actactgtgc ga 12

<210> 121
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 121
ctactgtgag ag 12

<210> 122
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 122
tactgtgcga ga 12

<210> 123
<211> 13
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 123
actgtgcgag aga 13

<210> 124
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 124
cgagagat 8

<210> 125
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 125
gagagatc 8

<210> 126
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 126
agagatcg 8

<210> 127
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 127
gagatcgt 8

<210> 128
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 128
agatcggt 8

<210> 129
<211> 8

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 129
gatcgtta 8

<210> 130
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 130
atcggttac 8

<210> 131
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 131
tcgttact 8

<210> 132
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 132
cgttacta 8

<210> 133
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 133
gttactatga ga 12

<210> 134
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 134
ttactatgag ac 12

<210> 135
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 135
tactatgaga ct 12

<210> 136
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 136
actatgagac ta 12

<210> 137
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 137
ctatgagact ag 12

<210> 138
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 138
tatgagacta gt 12

<210> 139
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 139
atgagactag tg 12

<210> 140
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 140
tgagactagt gg 12

<210> 141
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 141
gagactagtgt gt 12

<210> 142
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 142
tagtgggtc 8

<210> 143
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 143
agtgggtcc 8

<210> 144
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 144
gtgggtcca 8

<210> 145
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 145
tgggtccaa 8

<210> 146
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 146
ggtccaat 8

<210> 147
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 147
gtccaatg 8

<210> 148
<211> 8
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 148
tccaatgc

8

<210> 149
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 149
ccaatgcttt tg

12

<210> 150
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 150
caatgctttt ga

12

<210> 151
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 151
aatgcttttg at

12

<210> 152
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 152
atgcttttga tg

12

<210> 153
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 153
tgcttttgat gt

12

<210> 154
<211> 12

<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 154
gcttttgatg tc 12

<210> 155
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 155
cttttgatgt ct 12

<210> 156
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 156
ttttgatgtc tg 12

<210> 157
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 157
tttgatgtct gg 12

<210> 158
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 158
ttgatgtctg gg 12

<210> 159
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 159
tgatgtctgg gg 12

<210> 160
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 160
gatgtctgga gc 12

<210> 161
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 161
atgtctgggg cc 12

<210> 162
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 162
tgtctggggc ca 12

<210> 163
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 163
gtctggggcc aa 12

<210> 164
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 164
tctggggcca ag 12

<210> 165
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 165
ctggggccaa gg 12

<210> 166
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 166
tggggccaag ga 12

<210> 167
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 167
ggggccaagg aa 12

<210> 168
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 168
gggccaagga ac 12

<210> 169
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 169
ggccaaggaa ca 12

<210> 170
<211> 44
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 170
tgtctactac tgtgcgagag atcggtacta tgagactagt gggt 44

<210> 171
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 171
tgtgtattac tgtgcgagag a 21

<210> 172
<211> 23
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 172
gtattactat gatagtagtg gtt 23

<210> 173
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<400> 173
carytngtng ar 12

<210> 174
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 174
gtctactact g 11

<210> 175
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 175
tctactactg t 11

<210> 176
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 176
ctactactgt g 11

<210> 177
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 177
tactactgtg c 11

<210> 178
<211> 11
<212> DNA

<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 178
actactgtgc g 11

<210> 179
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 179
ctactgtgcg a 11

<210> 180
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 180
tactgtgcga g 11

<210> 181
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 181
actgtgcgag a 11

<210> 182
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 182
ctgtgcgaga g 11

<210> 183
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 183
tgtgcgagag a 11

<210> 184
<211> 11
<212> DNA
<213> Artificial sequence

<220>

<223> Single strand DNA oligonucleotide

<400> 184
agatcggttac t

11

<210> 185
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 185
gatcggttact a

11

<210> 186
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 186
atcggttacta t

11

<210> 187
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 187
tcggttactat g

11

<210> 188
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 188
cggttactatg a

11

<210> 189
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 189
tgagactagt g

11

<210> 190
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 190

gagactagtg g

11

<210> 191
<211> 11
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<400> 191
agactagtgg t

11

<210> 192
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 192

Glu Val Gln Leu
1

<210> 193
<211> 3
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 193

Val Gln Leu
1

<210> 194
<211> 3
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 194

Val Gln Leu
1

<210> 195
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 195

Val Gln Leu Val
1

<210> 196
<211> 3
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 196

Gln Leu Val
1

<210> 197
<211> 3
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 197

Gln Leu Val
1

<210> 198
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide

<400> 198

Gln Leu Val Glu
1

<210> 199
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<400> 199
gargtncary tn

12

<210> 200
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<400> 200
argtncaryt ng

12

<210> 201
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<400> 201
rgtncarytn gt

12

<210> 202
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<400> 202
gtncarytng tn

12

<210> 203
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> Single strand DNA oligonucleotide

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>

35

<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<400> 203
tncarytngt ng

12